

REMARKS

As a preliminary matter, applicant appreciates the allowance of claims 5 and 6, and the indication of allowability of claim 4.

The title and drawings have been amended as required. Withdrawal of the related objections is requested.

Claims 1-3 stand rejected under § 103 on the basis of applicant's admitted prior art (AAPA) and Wei et al. Applicant respectfully traverses this rejection because neither reference, alone or in combination, discloses or suggests deformation of a liquid crystal layer by spray deformation or bend deformation, as in the present invention.

The examiner suggested that the AAPA discussed in the present application on pages 2-5, Figs. 3-5, describes a liquid crystal display device wherein the deformation of the liquid crystal layer is at least spray deformation or bend deformation. To the contrary, the AAPA fails to disclose that "the deformation of the liquid crystal layer is at least spray deformation or bend deformation".

As to the description of spray or bend deformation, the present specification discloses "The result is shown in Fig. 8. The response time is longer in the panel in which rubbing is conducted by deviating the rubbing direction by 90 degrees. The 90 degree deviation corresponds to twist deformation, and anti-parallel corresponds to spray deformation. In this way, deformation of the liquid crystal layer is limited to spray or bend other than twist" in page 13, lines 24-30 of the embodiment. Therefore, the examiner's assertion is not correct.

The examiner suggested that Wei discloses a liquid crystal display device wherein nematic liquid crystal molecules and a cured-product formed three-dimensionally of a composition having a liquid crystal skeletal structure sandwiched between the substrates (Fig. 3B), and Wei also discloses that by adding a small amount (between 0.1 to 10wt%) of a suitable monomer such as monoacrylates or diacrylates with the liquid crystal layer and photo-curing it with ultraviolet light, it is possible to obtain a display that has both a wide viewing angle and fast response speed (abstract; col. 3, lines 59-66).


However, Fig. 3B of Wei fails to disclose a liquid crystal display device wherein nematic liquid crystal molecules and a cured-product formed three-dimensionally of a composition having a liquid crystal skeletal structure is sandwiched between substrates.

Furthermore, Wei discloses that "When V is about 5 volts, the twisted nematics form, as shown in Fig. 3B, so light will now pass through the analyzer and emerge as beam 29". (col. 3, lines 34-36). Thus, the form of liquid crystal 4 of Fig. 3B is twisted nematic, not the spray or bend form. Since neither reference discloses or suggests spray deformation or bend deformation, reconsideration and withdrawal of this rejection is respectfully requested.

For the foregoing reasons, applicants believe that this case is in condition for allowance, which is respectfully requested. The examiner should call applicants' attorney if an interview would expedite prosecution.

Respectfully submitted,

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FIG.2

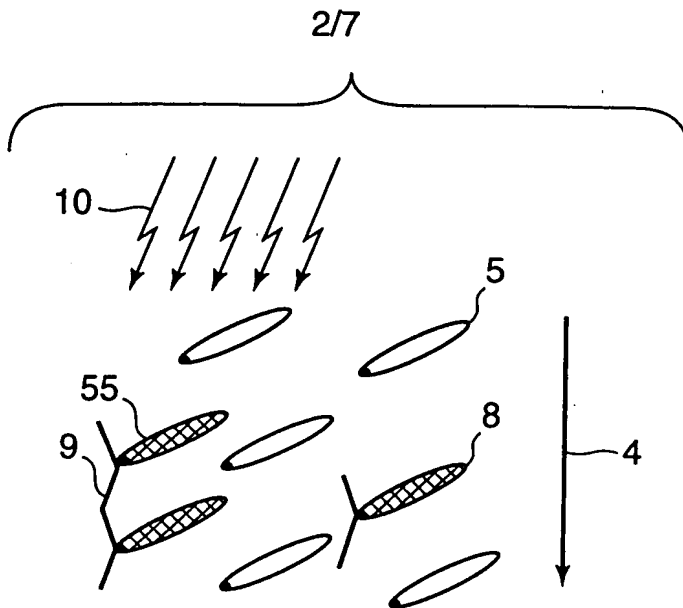
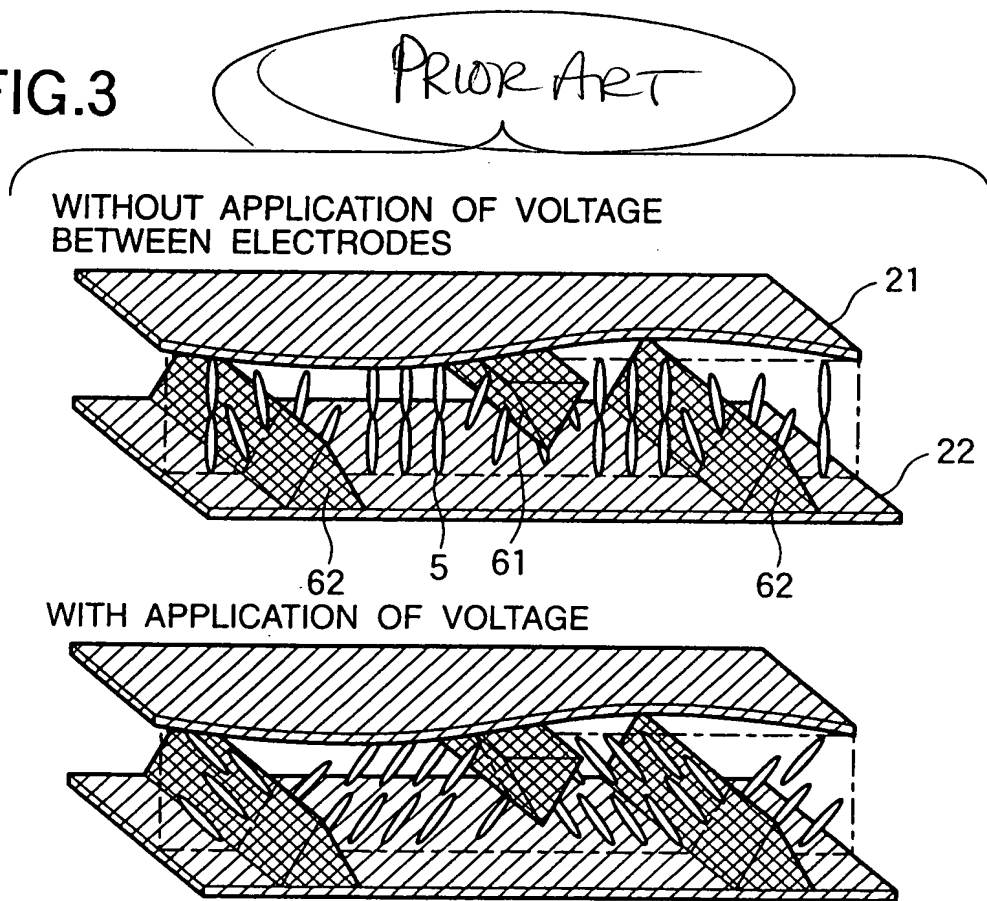


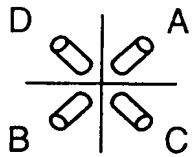
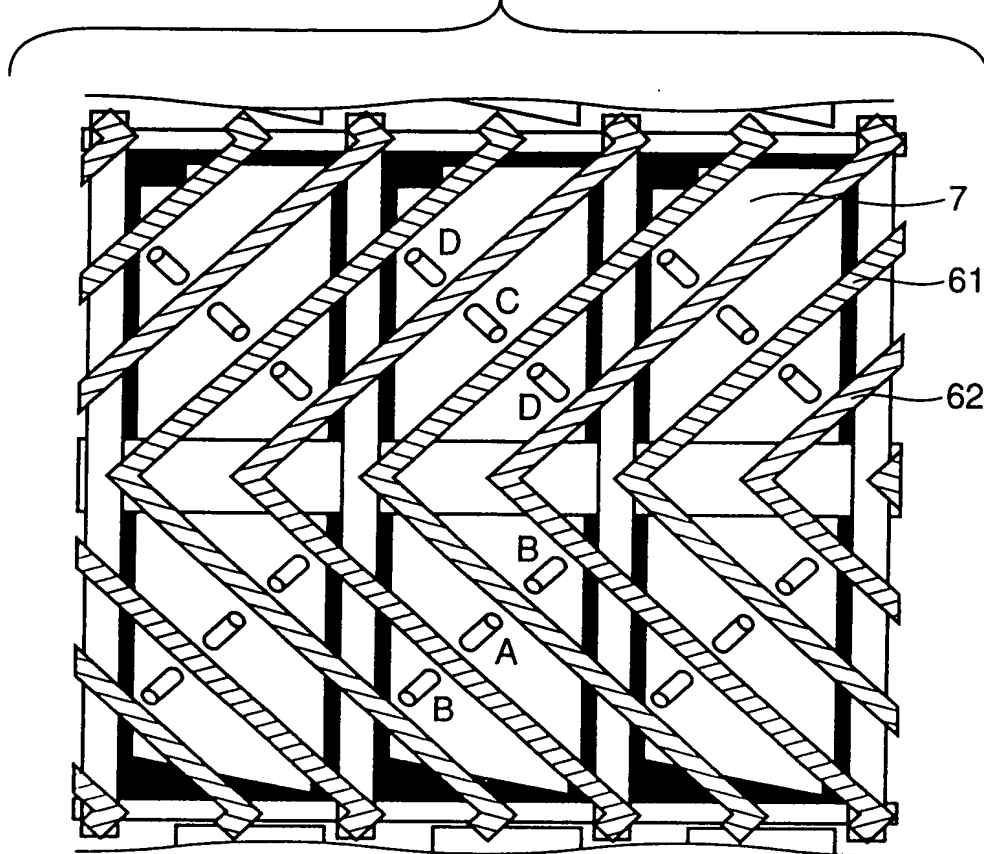
FIG.3





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PRIOX ART
FIG. 4



DIRECTION
OF DOMAINS



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Prior Art
FIG.5

